

D6FEC10ST

Schottky Barrier Diodes 100V, 6A

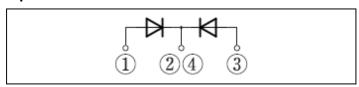
Feature

- SMD
- Tj=175°C
- Ultra low I_R
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FE
Package (JEDEC Code): TO-252AB similar
Package (JEITA Code): SC-63

Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

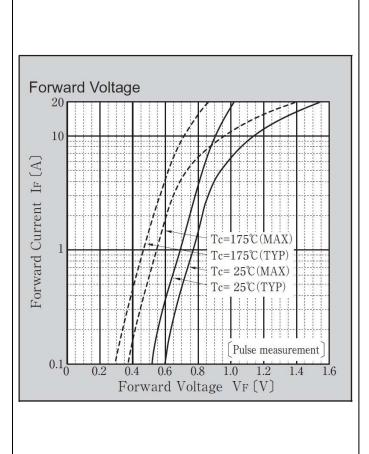
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 175	°C
Junction temperature	Tj		-55 to 175	°C
Repetitive peak reverse voltage	V _{RRM}		100	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=154°C **	6	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	Peak 100	
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C		Α

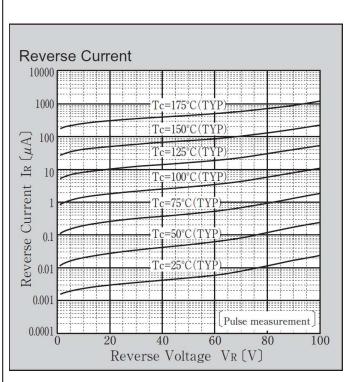
[※] ∶See the original Specifications

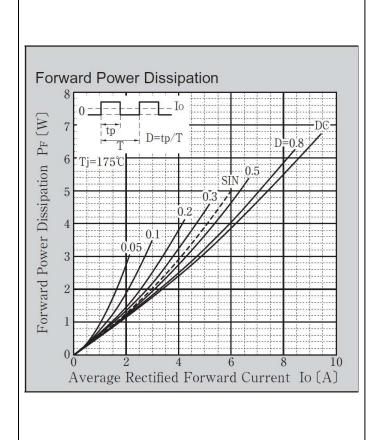
Electrical Characteristics (unless otherwise specified : Tc=25°C)

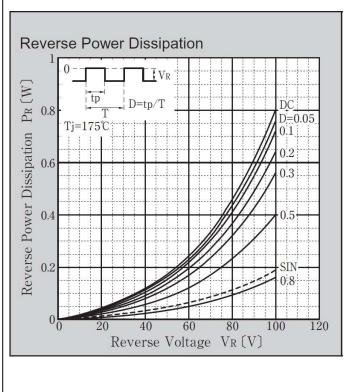
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Offic
Forward voltage	V _F	IF=3A, Pulse measurement, per diode			0.86	V
Reverse current	I _R	VR=100V, Pulse measurement, per diode			0.008	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		60		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink **			4	°C/W

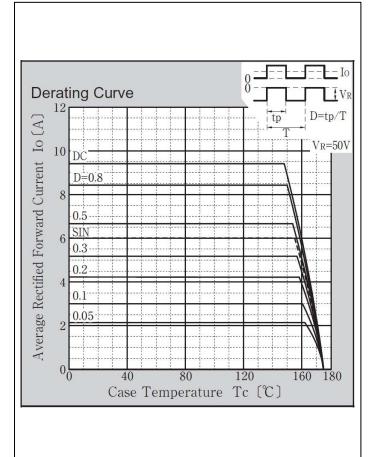
CHARACTERISTIC DIAGRAMS

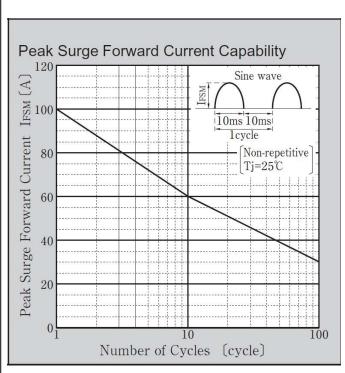


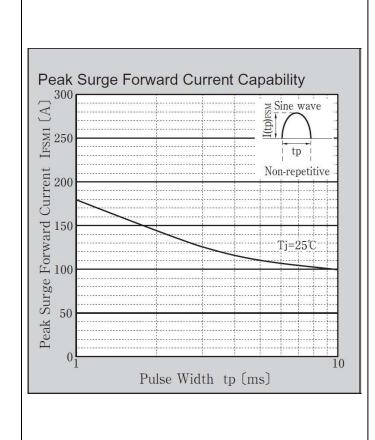


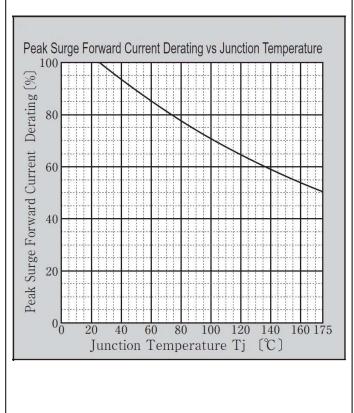


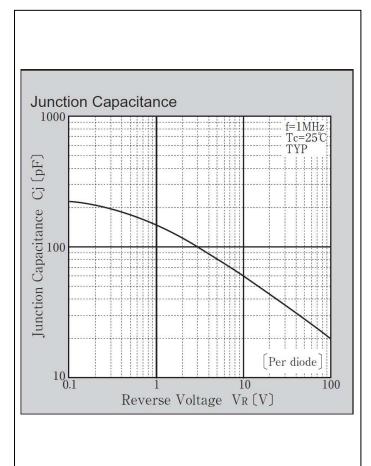


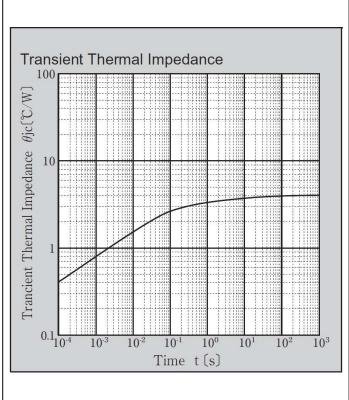










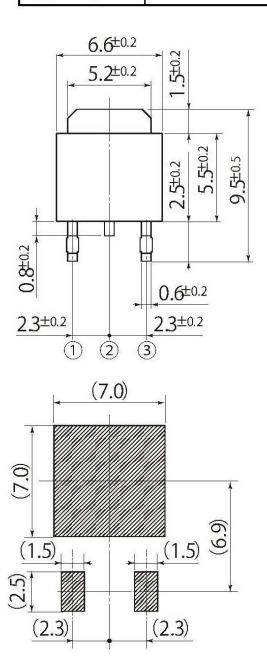


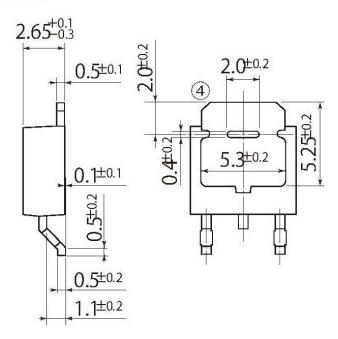
unit:mm

scale: 4/1

G3

JEDEC Code	TO-252AB similar		
JEITA Code	SC-63		
House Name	FE		





Referential Soldering Pad

[•] Optimize soldering pad to the board design and soldering condition.

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